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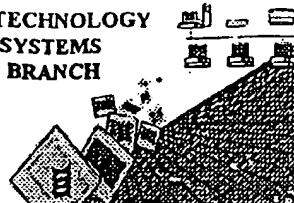
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BIOTECHNOLOGY
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Application Serial Number: 10/669,162
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Revised 10/08/03

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/669,162

DATE: 02/24/2004
TIME: 14:54:25

Input Set : A:\210387_2.doc
Output Set: N:\CRF4\02242004\J669162.raw

1945 <221> NAME/KEY: misc_feature
 1946 <222> LOCATION: (21)...(305)
 1947 <223> OTHER INFORMATION: n = g, a, c or *o/u*
 1949 <400> SEQUENCE: 113

E--> 1950 tcgatatttc ttatcgtag nnnagggtgga gggannctgg nnnncctta gaaacctnn 60
 E--> 1951 agcaaccggc ttgttttgcn nnnnnnnnnnn nnnatttnnnn nnnnnnnnnnn 120
 E--> 1952 nnnnnnnnnnn nnnngcaaag cgccaaagggtg ctaaatncca gnnnnnncaa gcgtnnnnnn 180
 E--> 1953 nnnnttttn nnnnnnnnnna tgcttggaaat aagaagaa gctttaaann nnnnnnnnnnn 240
 E--> 1954 nnnnnnnnnnn nnnnnnnnnn nnnnnnnncc ctttttcnn nnnnnnnnnnt tatnnnnnnnn 300
 E--> 1955 nnnnngaaga aggggtttt attttggaaaa gggaaagggtgt cagctatatg tcacagcacg 360
 E--> 1956 ttgaaacgaa attagctaa atttggaaacc gtatcgatgt agtcacggga acagttagtg 420
 E--> 1957 ctccatctta tttatcaaca gcataccggc acagaggatcg gagaatot accggatttg 480
 E--> 1958 attatg 486

1960 <210> SEQ ID NO: 114
 1961 <211> LENGTH: 486
 1962 <212> TYPE: *RNA*
 1963 <213> ORGANISM: Bacillus subtilis
 1965 <220> FEATURE:
 1966 <221> NAME/KEY: misc_feature
 1967 <222> LOCATION: (21)...(304)
 1968 <223> OTHER INFORMATION: n = g, a, c or *o/u*
 1970 <400> SEQUENCE: 114

E--> 1971 acattttctc ttatcgagag nnttggcga gggannttgg nnnncctttt gaccccaanc 60
 E--> 1972 agcaaccgac cnnnnnnngat ataccattgt gaaatggggc gcactgcttt togcggcggag 120
 E--> 1973 actgatgtct cataannnnn nggcacggtg ctaatncca tnnnnnnncag atnnnnnnnn 180
 E--> 1974 nnnnntgttnn nnnnnnnnnn ngtctgagag atgagagagg cagtttta ctagaaaaan 240
 E--> 1975 nnnnnnnnnnn nnnnnnnnnn nnnnnnnnngc ctctttctcn nnnnnnnnnnt catnnnnnnnn 300
 E--> 1976 nnnnngggaaa gaggtttt gtttgagaa aacctttag cagcctgtat ccgcgggtga 360
 E--> 1977 aagagagtgt tttacatata aaggaggaga aacaatgaca accataaaa catcgaattt 420
 E--> 1978 aggatttccg agaattcgacc tgaaccggga atggaaaaaa gcacttgaag cgtattggaa 480
 1979 aggacag 486

SAME errors

SAME errors

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

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PATENT APPLICATION: US/10/669,162

DATE: 02/24/2004

TIME: 14:54:26

Input Set : A:\210387_2.doc
Output Set: N:\CRF4\02242004\J669162.raw

L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:120
M:341 Repeated in SeqNo=3
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
M:341 Repeated in SeqNo=9
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
M:341 Repeated in SeqNo=10
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
M:341 Repeated in SeqNo=12
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
M:341 Repeated in SeqNo=15
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
M:341 Repeated in SeqNo=17
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
M:341 Repeated in SeqNo=18
L:461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/669,162

DATE: 02/24/2004

TIME: 14:54:26

Input Set : A:\210387_2.doc

Output Set: N:\CRF4\02242004\J669162.raw

M:341 Repeated in SeqNo=31

L:660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
 L:1718 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:98
 L:1929 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:10
 L:1930 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
 L:1930 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:14
 L:1931 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:5
 L:1931 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:19
 L:1932 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:5
 L:1932 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:24
 L:1933 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7
 L:1933 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:31
 L:1934 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:22
 L:1934 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:53
 L:1935 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
 L:1935 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:67
 L:1936 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:18
 L:1936 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:85
 L:1950 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:14
 L:1951 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:9
 L:1951 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:23
 L:1952 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
 L:1952 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:27
 L:1953 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11
 L:1953 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:38
 L:1954 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7
 L:1954 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:45
 L:1955 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:15
 L:1955 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:60
 L:1956 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12
 L:1956 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:72
 L:1957 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:15
 L:1957 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:87
 L:1958 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3
 L:1958 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:90
 L:1971 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:16
 L:1972 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11
 L:1972 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:27
 L:1973 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11
 L:1973 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:38
 L:1974 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11
 L:1974 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:49
 L:1975 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7
 L:1975 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:56
 L:1976 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:15
 L:1976 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:71
 L:1977 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:13
 L:1977 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:84
 L:1978 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:11

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/669,162

DATE: 02/24/2004

TIME: 14:54:26

Input Set : A:\210387_2.doc

Output Set: N:\CRF4\02242004\J669162.raw

L:1978 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:95
 L:1992 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:17
 L:1993 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
 L:1993 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:31
 L:1994 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12
 L:1994 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:43
 L:1995 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:8
 L:1995 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:51
 L:1996 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:6
 L:1996 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:57
 L:1997 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:19
 L:1997 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:76
 L:1998 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:13
 L:1998 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:89
 L:1999 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12
 L:1999 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:101
 L:2013 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:10
 L:2014 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3
 L:2014 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:13
 L:2015 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7
 L:2015 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:20
 L:2016 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
 L:2016 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:24
 L:2017 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:6
 L:2017 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:30
 L:2018 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:17
 L:2018 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:47
 L:2019 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:9
 L:2019 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:56
 L:2020 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12
 L:2020 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:68
 L:2021 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:2021 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:69
 L:2034 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:9
 L:2035 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
 L:2035 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:13
 L:2036 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:7
 L:2036 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:20
 L:2037 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
 L:2037 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:34
 L:2038 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:6
 L:2038 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:40
 L:2039 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:19
 L:2039 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:59
 L:2040 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
 L:2040 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:73
 L:2041 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:13
 L:2041 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:86
 L:2056 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/669,162

DATE: 02/24/2004

TIME: 14:54:26

Input Set : A:\210387_2.doc

Output Set: N:\CRF4\02242004\J669162.raw

L:2057 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
L:2058 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:10
L:2059 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
L:2060 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:17
L:2061 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14

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PATENT APPLICATION: US/10/669,162

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L:2057 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:4
L:2058 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:10
L:2059 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14
L:2060 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:17
L:2061 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:14